

AMENDMENTS TO THE SPECIFICATION

Please amend line 5 on page 23 as follows:

—The Fab fragment of an anti-Ad5 knob antibody, 1D6.14, is used to prepare the Fab-9B9 conjugate. 1D6.14 hybridoma cell line, ATCC No. PTA-6973 (ATCC Depository: American type culture collection, 10801 University boulevard, Manassas, VA 20110-2209; Deposit date: September 14, 2005), can be used to prepare the Fab fragment. The 1D6.14 monoclonal antibody recognizes trimeric fiber knob of the human adenovirus serotypes (ADS).

Construction of Fab-9B9 and subsequent in vitro and in vivo validation has previously been described (12). Briefly, Fab and mAb 9B9 were derivatized with the bifunctional crosslinker N-succinimidyl 3-(2-pyridyldithio) propionate (SPDP; Pierce, Rockford, IL). SPDP was dissolved in 100% ethanol to a final concentration of 2 mg/ml, then combined with 9B9 or Fab in PBS at a molar ratio of 4 SPDP : 1 antibody and incubated with shaking at room temperature for 30 min. The pH of Fab was lowered by adding 0.1 volumes of 1M sodium acetate, pH 4.5, then the Fab was reduced by adding 1 mg of solid dithiothreitol (DTT; Bio-Rad, Hercules, CA). After a 5 min incubation at room temperature the reduced Fab was passed through a PD10 column (Pharmacia, Uppsala, Sweden), equilibrated in borate buffer, then added immediately to the derivatized 9B9 and shaken at room temperature overnight. The conjugate mixture was subsequently purified by gel filtration on a HR 10/30 Superose 12

column (Pharmacia) in borate buffer pH 8.5. Monomeric Fab and 9B9 were discarded and fractions larger than 150 kDa were assessed for specificity.—